

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (currently amended): An apparatus for supplying power over an optical link, the apparatus comprising:

a hybrid cable including an optical fiber, ~~and an~~ outer conductor, and a non-conductive material between the optical fiber and the outer conductor, wherein the optical fiber is configured to transmit an optical signal and the conductor is configured to transmit a power signal;

a first fiber optic link;

a first node;

a first connector coupled by the first fiber optic link to the first node;

a first conductor;

a power source, wherein the first connector is further coupled by the first conductor to the power source;

a second fiber optic link;

a second node;

a second connector coupled by the second fiber optic link to the second node; and

a second conductor, wherein the second connector is coupled by the second conductor to the second node.

Claim 2 (currently amended): The apparatus of claim 1, wherein the optical fiber and the outer conductor are disposed internally within the hybrid cable.

Claim 3 (currently amended): The apparatus of claim 1, wherein the fiber and the outer conductor are coaxial in configuration.

Claim 4 (currently amended): The apparatus of claim 1, wherein the optical fiber is parallel to the outer conductor.

Claim 5 (currently amended): The apparatus of claim 1, wherein the outer conductor comprises copper.

Claim 6 (currently amended): The apparatus of claim 1, wherein the outer conductor comprises stainless steel.

Claim 7 (currently amended): The apparatus of claim 1, wherein the outer conductor comprises:
a twisted pair of solid conductor.

Claim 8 (currently amended): The apparatus of claim 1, wherein the outer conductor comprises:
a twisted pair of flexible conductor.

Claim 9 (currently amended): The apparatus of claim 1, wherein the outer conductor comprises a mesh configuration.

Claim 10 (cancelled)

Claim 11 (currently amended): The apparatus of claim 1, further comprising:
an outer protection disposed on the outer conductor.

Claim 12 (currently amended): The apparatus of claim 1, wherein the hybrid cable comprises:

a second optical fiber and a second outer conductor.

Claim 13 (currently amended): A network system, comprising:

a hybrid cable including an optical fiber, ~~and an~~ outer conductor, and an insulator between the optical fiber and the outer conductor;

a first fiber optic link;

a first node;

a first connector coupled by the first fiber optic link to the first node;

a second fiber optic link;

a second node;

a second connector coupled by the second fiber optic link to the second node;

a first conductor;

a second conductor, wherein the second connector is coupled by the second conductor to the second node;

wherein the first node is configured to transmit an optical signal via the optical fiber to the second node, or alternatively the first node is configured to receive a second optical signal via the optical fiber from the second node; and

a power source configured to transmit a power signal via the conductor to the second node, wherein the first connector is further coupled by the first conductor to the power source.

Claim 14 (currently amended): The apparatus of claim 13, wherein the optical fiber and the outer conductor are disposed internally within the hybrid cable.

Claim 15 (currently amended): The apparatus of claim 13, wherein the optical fiber and the outer conductor are coaxial in configuration.

Claim 16 (currently amended): The apparatus of claim 13, wherein the optical fiber is parallel to the outer conductor.

Claim 17 (currently amended): The apparatus of claim 13, wherein the outer conductor comprises copper.

Claim 18 (currently amended): The apparatus of claim 13, wherein the outer conductor comprises stainless steel.

Claim 19 (currently amended): The apparatus of claim 13, wherein the outer conductor comprises:
a twisted pair of solid conductor.

Claim 20 (currently amended): The apparatus of claim 13, wherein the outer conductor comprises:
a twisted pair of flexible conductor.

Claim 21 (currently amended): The apparatus of claim 13, wherein the outer conductor comprises a mesh configuration.

Claim 22 (cancelled)

Claim 23 (currently amended): The apparatus of claim 13, further comprising:

an outer protection disposed on the outer conductor.

Claim 24 (currently amended): The apparatus of claim 13, wherein the hybrid cable comprises:

a second optical fiber and a second outer conductor.

Claim 25 (currently amended): A method for supplying power over an optical link, the method comprising:

providing a hybrid cable in a network system, wherein the hybrid cable includes an optical fiber, ~~and~~ an outer conductor, and a non-conductive material between the optical fiber and the outer conductor; and

transmitting an optical signal along the optical fiber, and transmitting a power signal along the outer conductor, including transmitting the optical signal from a first node via a first fiber optic link to a first connector, transmitting the optical signal from the first connector via the optical fiber to a second connector, transmitting the optical signal from the second connector via a second fiber optic link to a second node, transmitting the power signal from a power source via a first conductor to the first connector, transmitting the power signal from the first connector via the outer conductor to the second connector, and transmitting the power signal from the second connector to the second node.

Claim 26 (currently amended): The method of claim 25, wherein the optical fiber and the outer conductor are disposed internally within the hybrid cable.

Claim 27 (currently amended): The method of claim 25, wherein the optical fiber and the outer conductor are coaxial in configuration.

Claim 28 (currently amended): The method of claim 25, wherein the optical fiber is parallel to the outer conductor.

Claim 29 (currently amended): The method of claim 25, wherein the outer conductor comprises copper.

Claim 30 (currently amended): The method of claim 25, wherein the outer conductor comprises stainless steel.

Claim 31 (currently amended): The method of claim 25, wherein the outer conductor comprises:

a twisted pair of solid conductor.

Claim 32 (currently amended): The method of claim 25, wherein the outer conductor comprises:

a twisted pair of flexible conductor.

Claim 33 (currently amended): The method of claim 25, wherein the outer conductor comprises a mesh configuration.

Claim 34 (cancelled)

Claim 35 (currently amended): The method of claim 25,
further comprising:

an outer protection disposed on the outer conductor.

Claim 36 (currently amended): The method of claim 25,
wherein the hybrid cable comprises:

a second optical fiber and a second outer conductor.

Claim 37 (currently amended): An apparatus for supplying
power over an optical link, the apparatus comprising:

means for transmitting an optical signal along an
optical fiber, and for transmitting a power signal along an
outer conductor, wherein a non-conductive material is
between the optical fiber and the outer conductor;

a first fiber optic link;

a first node;

a first connector coupled by the first fiber optic
link to the first node;

a first conductor;

a power source, wherein the first connector is further
coupled by the first conductor to the power source;

a second fiber optic link;

a second node;

a second connector coupled by the second fiber optic
link to the second node; and

a second conductor, wherein the second connector is
coupled by the second conductor to the second node.

38 (new): The apparatus of claim 1 wherein the second node comprises a wireless access point and wherein a wireless device communicates with the wireless access point by use of a wireless signal.

39 (new): The network system of claim 13 wherein the second node comprises a wireless access point and wherein a wireless device communicates with the wireless access point by use of a wireless signal.

40 (new): The method of claim 25 wherein the second node comprises a wireless access point and wherein a wireless device communicates with the wireless access point by use of a wireless signal.

41 (new): The apparatus of claim 37 wherein the second node comprises a wireless access point and wherein a wireless device communicates with the wireless access point by use of a wireless signal.